CLAIMS

Having thus described the invention, what is claimed as new and desired to be secured by Letters Patent is as follows:

- 1 1. A portable pill crushing device, comprising:
 2 a housing;
 3 a motor disposed in said housing;
 4 at least one roller rotatably mounted within the housing and drivingly connected
 5 to said motor, said roller having an outer surface for engaging and
 6 crushing pills; and
 7 a pressure plate attached to the housing, said pressure plate having a first
 8 position in which a first surface of the pressure plate is disposed adjacent
 9 to the outer surface of the roller, whereby pills can be crushed between
 10 the pressure plate and the roller as the roller is rotatably driven by the
- 2. The portable pill crushing device according to claim 1, wherein said pressure plate is rotatably connected to the housing such that the pressure plate can be rotated away from the roller for inspection and cleaning.

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motor.

3. The portable pill crushing device according to claim 1, wherein said pressure plate is rotatable about a first axis away from said first position and into close proximity to an outer surface of the housing for engaging and crushing pills between the pressure plate and the outer surface of the housing in a manual pre-crushing operation.

- 4. The portable pill crushing device according to claim 1, wherein said pressure
- 2 plate is rotatable about a first axis away from said first position such that the first
- 3 surface of the pressure plate moves away from the outer surface of the roller and a
- 4 second surface of the pressure plate moves into close proximity to a top side of the
- 5 housing, whereby said pressure plate cooperates with said housing to provide a
- 6 manual pre-crushing operation.
- 5. The portable pill crushing device according to claim 4, wherein an upper
- 2 surface of the housing comprises a sloped surface that directs pills to be crushed into a
- 3 space between the pressure plate and the roller.
- 6. The portable pill crushing device according to claim 5, wherein said second
- 2 surface of the pressure plate is movable into close proximity to said sloped surface to
- 3 provide the manual pre-crushing operation.
- 7. The portable pill crushing device according to claim 1, wherein said housing
- 2 has a base for stabilizing the crushing device during use.
- 8. The portable pill crushing device according to claim 7, wherein said base has
- 2 a vacuum lock system operable to anchor the crushing device to a smooth surface
- 3 using a vacuum created between the base and the smooth surface.

- 9. The portable pill crushing device according to claim 1, wherein said at least one roller comprises a series of rollers, and the first surface of the pressure plate is disposed adjacent to the respective outer surfaces of the rollers for crushing pills as the pills pass between the first surface of the pressure plate and the outer surfaces of the rollers.
- 1 10. The portable pill crushing device according to claim 1, wherein said rollers
 2 include a first roller closest to an inlet of the crushing device and a last roller closest
 3 to an outlet of the crushing device, and a spacing between said pressure plate and the
 4 respective outer surfaces of the rollers decreases from the first roller to the last roller
 5 to provide a gradual progression of crushing from coarse material to fine material.
 - 11. The portable pill crushing device according to claim 1, wherein said motor is connected to said at least one roller by a gear train.

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- 1 12. The portable pill crushing device according to claim 1, wherein said 2 housing comprises a receptacle formed therein for receiving a rechargeable battery for 3 supplying power to the motor.
- 1 13. The portable pill crushing device according to claim 1, wherein said
 2 housing comprises a front side, a bottom side, a top side, and right and left sides, the
 3 rollers are pivotally mounted at their respective ends to the right and left sides of the
 4 housing, the pressure plate is arranged to substantially cover the front side, an inlet of
 5 a crushing chamber is provided between the top side and an upper end of the pressure

- 6 plate, and an outlet of the crushing chamber is provided between the bottom side and
- 7 a lower end of the pressure plate.
- 1 14. The portable pill crushing device according to claim 1, wherein said at least
- 2 one roller comprises a plurality of rollers which are made of stainless steel and have
- 3 smooth outer surfaces.
- 1 15. The portable pill crushing device according to claim 1, further comprising a
- 2 plastic enclosure for encasing a pill during crushing to prevent contamination.

- 1 16. A portable pill crushing device, comprising:
- a housing having a base for supporting the pill crushing device in an upright
- 3 position;
- a motor disposed in said housing;
- a battery removably attached to said housing for supplying electrical power to
- 6 said motor; and
- a series of rollers rotatably mounted within the housing and drivingly connected
- 8 to said motor, said rollers each having a smooth outer surface for
- 9 engaging and crushing pills.
- 1 17. The portable pill crushing device according to claim 16, further comprising
- a pressure plate attached to the housing, said pressure plate being movable between a
- 3 closed position in which a first surface of the pressure plate is disposed adjacent to the
- 4 outer surfaces of the rollers, and an open position in which the pressure plate is
- 5 displaced away from the outer surfaces of the rollers to facilitate inspecting and
- 6 cleaning the rollers.
- 1 18. The portable pill crushing device according to claim 16, wherein said
- 2 pressure plate is rotatable about a first axis from said closed position to said open
- 3 position and is further rotatable about said first axis to move a second surface of the
- pressure plate into close proximity to an outer surface of the housing for engaging and
- 5 crushing pills between the pressure plate and the housing in a manual pre-crushing
- 6 operation.

- 1 19. The portable pill crushing device according to claim 16, wherein said
- 2 housing has a base equipped with a vacuum lock system which is operable to anchor
- 3 the crushing device to a smooth surface using a vacuum created between the base and
- 4 the smooth surface.
- 1 20. The portable pill crushing device according to claim 16, further comprising
- 2 a plastic enclosure for encasing a pill to be crushed to prevent direct contact of the pill
- 3 with the rollers and the pressure plate to avoid contamination.

1	21. A	method	of c	rushing	pills,	compris	ing t	he steps	of:

- providing a portable pill crushing device having a housing, a motor disposed in 2 3 said housing, a series of rollers rotatably mounted within the housing and drivingly connected to the motor, and a pressure plate attached to the 5 housing;
- placing a pill to be crushed into an inlet of the housing; and 6
- crushing the pill by energizing the motor to rotate the series of rollers and 7 causing the pill to pass between the pressure plate and respective outer 8 surfaces of the rollers.
- 22. The method of crushing pills according to claim 21, further comprising the 1 2 step of encasing the pill in plastic, and performing said crushing step while the pill is encased in plastic to avoid contamination. 3
- 1 23. The method of crushing pills according to claim 21, further comprising the 2 steps of:
- pre-crushing the pill by manually pivoting the pressure plate relative to the housing to engage the pill between the pressure plate and a surface of the 4 5 housing adjacent to the inlet; and

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repositioning the pressure plate into close proximity to the respective outer 6 surfaces of the series of rollers to prepare the crushing device for said crushing step. 8

- 1 24. The method of crushing pills according to claim 23, further comprising the
- 2 step of encasing the pill in plastic, and performing said pre-crushing and crushing
- 3 steps while the pill remains encased in plastic to avoid contamination.